Features & Benefits

- For refinery and petrochemical applications
- Recommended for extremely high temperatures
- Widest range of sealing options available
- Integral jacket chambers in the bracket and head surround the seal and pump internals for rapid & efficient heating, or to maintain a constant temperature using steam, hot oil or water

SEAL CHAMBER

- Accepts packing and a variety of component and cartridge style mechanical and lip seals, in both single and double mechanical seal configurations
- Double row ball or tapered roller bearings for axial thrust control

JACKETING

- For steam, hot oil or water circulation
- Threaded one-piece bearing housing allows for easy end clearance adjustment
- Large diameter threaded bearing housing allows easy removal of cartridge seals
- One-piece cast bracket with seal between bearings provides rigid foundation to maximize seal and bearing life
- Multiple port sizes, types, and ratings are available (Class 150, Class 300)

H223A

- refugee to 1,600 GPM (363 m³/h)
- to 200 PSI (14 BAR)
- -20°F to +800°F (-30°C to +430°C)
- 28 to 2,000,000 SSU (0.1 to 440,000 cSt)

Series: 223A, 4223A, 323A, 4323A

STEEL EXTERNALS CONSTRUCTION

Viking Pump
### PERFORMANCE

#### MODELS

<table>
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<tr>
<th>Packing</th>
<th>Mechanical Seal</th>
<th>Performance</th>
<th>Standard Ports</th>
</tr>
</thead>
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<td>H223A</td>
<td>H4223A</td>
<td>1750 RPM, 15 GPM</td>
<td>1.5 Flange</td>
</tr>
<tr>
<td>HL223A</td>
<td>HL4223A</td>
<td>1750 RPM, 30 GPM</td>
<td>1.5 Flange</td>
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<tr>
<td>K223A</td>
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<td>780 RPM, 75 GPM</td>
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<td>KK4223A</td>
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<td>LQ223A</td>
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<td>640 RPM, 135 GPM</td>
<td>2.5 Flange</td>
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<tr>
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<td>520 RPM, 140 GPM</td>
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<tr>
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<td>QQ423A</td>
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<td>4 Flange</td>
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<tr>
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<td>R4323A</td>
<td>280 RPM, 1,100 GPM</td>
<td>8 Flange</td>
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<tr>
<td>RS323A</td>
<td>RS4323A</td>
<td>280 RPM, 1,600 GPM</td>
<td>10 Flange</td>
</tr>
</tbody>
</table>

*Series 323A and 4323A include jacketed parts as standard.*

#### CURVES

- **GPM** vs. **RPM** graphs showing performance curves for different models.

### PORTING

- Right Angle (90°) (Rotatable Casing), H-Q
- Opposite (180°) (Rotatable Casing), QS-RS
- Flanged (ANSI)

### SEALING

- Packing
- Component Mechanical Seal
- Cartridge Mechanical Seal
- Cartridge Triple Lip Seal
- API 682 Seal (4223AX, 4323AX Series)

### MOUNTING

- Foot Mount

### OPTIONS

- Low temperature carbon steel down to -50°F (-45°C)

### LIQUIDS

- Crude Oil
- Heavy Fuel Oil
- Lube Oil
- Asphalts & Bitumens
- Rubber Solution
- Waxes

### DRIVES

- Offset Gear Reducer Drive
- Purchased Gear Reducer Drive
- Direct-Mounted Drive (H-HL)
- V-Belt Drive

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